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CLMPTO 08/11/04 JW

Amend Claims 1,3,6-10 13-14, and 16-19

Add New Claims 30-34

Cancel Claim 15

1. (Currently Amended) An intelligent service network, comprising:

a programmable switch; and

a switch controller coupled to said programmable switch, ~~and including a service control means for interfacing with an intelligent service network component of said intelligent service networks.~~

2. (Original) The intelligent service network of claim 1, further comprising:

an intelligent service network component coupled to said switch controller.

3. (Currently Amended) The intelligent service network of claim 1, wherein said switch controller further comprises:

a programmable switch support means for providing an interface to said programmable switch; and

a call control means for establishing a connection between two ports on said programmable switch; and

~~a service control means for interfacing with said intelligent service network component.~~

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4. (Original) The intelligent service network of claim 3, wherein said switch controller further comprises:

a resource control means for allocating resources.

5. (Original) The intelligent service network of claim 3, wherein said switch controller further comprises:

a management interface means for providing an interface to external management systems.

6. (Currently Amended) The intelligent service network of claim 1, wherein said programmable switch is one of a programmable switch or includes a digital exchange.

7. (Currently Amended) The intelligent service network of claim 2, wherein said intelligent service network component is comprising one of a manual or operator senses or parallel an automated responses with up, a service switching control point or point, and a protocol connector.

8. (Currently Amended) The intelligent service network of claim 2, wherein said intelligent service network component is comprising one of a means for receiving data or data, and a means for interfacing with a caller.

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9. (Currently Amended) The intelligent service network of claim 2, wherein said intelligent service network component ~~is one of~~ comprises one of a network information distribution system database coupled to said switch controller via a network information distribution system server ~~server~~, an applications ~~database~~ database, a data distribution system ~~database~~ database, and a routing database.

10. (Currently Amended) The intelligent service network of claim 2, further comprising:

a system management system coupled to said switch controller.

(1. Original) The intelligent service network of claim 1, further comprising:

a force management system coupled to said switch controller.

(2. Original) The intelligent service network of claim 1, further comprising:

a configuration and provisioning system coupled to said switch controller.

(3. (Currently Amended) ~~As~~ The intelligent service network of claim 1, further comprising:

~~a plurality of~~ another programmable switches and ~~switch~~ switch controller coupled to said ~~plurality of~~ programmable switches switch controller.

14. (Currently Amended) The intelligent service network of claim 2, further comprising:

~~a plurality of another intelligent service network components~~ component coupled to said switch controller.

15. (Canceled)

16. (Currently Amended) ~~As The~~ The intelligent service network of claim 1, further comprising:

~~one or more another switch controllers~~ controller and
one or more intelligent service network components coupled to at least one of said ~~one or~~
~~more~~ switch controllers.

17. (Currently Amended) ~~As The intelligent service network of claim 1,~~ further comprising:

~~a plurality of another programmable switches~~ switch; and
~~a plurality of another switch controllers~~ controller,
wherein each of said ~~plurality of~~ switch controllers is coupled to at least one of said
~~plurality of said~~ programmable switches.

18. (Currently Amended) ~~An The intelligent service network environment of claim 1,~~ further comprising:

~~one or more another programmable switches~~ switch coupled to a public switched
telephone network, wherein said public switched telephone network is coupled to
a calling device;
~~one or more another switch controllers~~ controller, wherein each of said ~~one or more~~
~~switch controllers~~ is coupled to at least one of said ~~one or more~~ programmable
~~switches~~ and
one or more intelligent service network components, wherein each of said one or more
intelligent service network components is coupled to at least one of said ~~one or~~
~~more~~ switch controllers.

19. (Currently Amended) The intelligent service network environment of claim 18,
further comprising:

one or more external networks and resources, wherein each one of said one or more
external networks and resources is coupled to at least one of said one or more
intelligent service network components.

20. (Not Amended) A messaging interface, comprising:

- means for communicating with a programmable switch using programmable switch interface messages; and
- means for communicating with an intelligent service network component using transmission control messages.

21. (Not Amended) The messaging interface of claim 20, further comprising:

- means for communicating with a system management system using system management

22. (Not Amended) The messaging interface of claim 20, further comprising:

- means for communicating with a force management system using force management messages.

23. (Not Amended) A method for setting up a call to an intelligent service network component comprising the steps of:

(a) receiving by a switch controller from a programmable switch a first programmable switch application programmer interface message to request service indicating an initial address message was received from a public switched telephone network;

(b) sending a second programmable switch application programmer interface message to command a programmable switch to send an address complete message to said public switched telephone network;

(c) sending a transmission control message to the intelligent service network component;

(d) receiving a transmission control response message from the intelligent service network component;

(e) sending a third programmable switch application programmer interface message to said programmable switch requesting sending of an answer message to said public switched telephone network; and

(f) sending a fourth programmable switch application programmer interface message to

said programmable switch requesting connection of a circuit.

24. (Not Amended) The method of claim 23, further comprising the following steps

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performed before step (a):

receiving by an originating switch controller from an originating programmable switch a first originating programmable switch application programmer interface message to request service indicating an initial address message was received from a public switched telephone network;

determining that said originating switch controller cannot select the intelligent service network component; and

obtaining an intermachine trunk facility between said originating programmable switch and said programmable switch.

25. (Not Amended) A method for setting up a call originated via a public switched telephone network to an intelligent service network component, comprising the steps of:

receiving a request for facilities to provide service for the call;

selecting by a switch controller the intelligent service network component;

commanding by said switch controller a programmable switch to provide connections and signal to a public switched telephone network to connect the call to the intelligent service network component; and

sending by said switch controller a call offered signal to the intelligent service network component.

26. (Not Amended) A method for connecting a call from an intelligent service network component to a terminating party via a public switched telephone network, comprising the steps of:

receiving by a switch controller from the intelligent service network component a request

to connect the call to the terminating party indicating a type of the call;
commanding a programmable switch to obtain facilities via the public switched telephone network to the terminating party; and
receiving from said programmable switch a message indicating that said facilities have been obtained.

27. (Not Amended) A method for disconnecting a call established between a public switched telephone network and an intelligent service network component, comprising the steps of:

receiving by a switch controller a termination signal obtained from a calling device interconnected to the public switched telephone network indicating that the call is being terminated;

notifying the intelligent service network component that the established call is being terminated; and

commanding by a switch controller a programmable switch to release the call.

28. (Not Amended) The method of claim 27, further comprising the steps of:

commanding said programmable switch to park channels associated with an originating party and the intelligent service network component;

sending the intelligent service network component a call offered message indicating a reorigination request was received from the public switched telephone network; and

commanding said programmable switch to connect the originating party and the intelligent service network component;

wherein said termination signal is a reorigination signal.

29. (Not Amended) A method for transferring a call, connected between a public switched telephone network and a first intelligent service network component from the first intelligent service network component to a second intelligent service network component, comprising the steps of:

receiving from the first intelligent service network component a request to transfer the call;

commanding a programmable switch to park the channel of the call while the call is being transferred;

selecting by a switch controller the second intelligent service network component;

sending by said switch controller a call offered signal to the second intelligent service network component; and

commanding by said switch controller a programmable switch to provide connections and signal to a public switched telephone network to connect the call to the second intelligent service network component.

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30. (New) A communication system for providing telecommunication services, comprising:

a switch configured to process a call received from a telephony network according to program instructions; and

a switch controller configured to generate the program instructions to the switch for distributing the call to a plurality of network components based on availability of

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31. (New) A system according to claim 30, wherein the plurality of network components include an intelligent peripheral configured to provide one of operator services, and voice response services based on the received call.

32. (New) A system according to claim 30, wherein the plurality of network components include a network information distribution system configured to access data including one of customer account information, call routing information, and prepaid call information in response to the received call.

33. (New) A system according to claim 30, wherein the plurality of network components include a protocol converter configured to converting protocols of an external resource to a protocol compatible with the data network.

34. (New) A system according to claim 30, wherein the plurality of network components include a management system configured to provide one of work force management, provisioning of resources, and configuration of the resources.